

UP TO 70% TOTAL SOLAR
ENERGY REJECTION

UV PROTECTION

Skyfol



Automotive Window Films

Automotive Window Films

HEAT REJECTION

VISIBLE LIGHT

The wavelength range of electromagnetic radiation that can be perceived by the human eye, it ranges from 390 to 750 nm



SKYFOL AUTOMOTIVE WINDOW FILM

SOLAR SPECTRUM

It ranges from infrared through visible light to ultraviolet

GLASS

Amorphous material with certain characteristics similar to liquids. It is formed from a melt by cooling to rigidity without crystallization



WHO IS SKYFOL

Skyfol is a forward-thinking brand delivering premium window films and paint protection films to trusted partners. Our roots go back to 1982, when our founders began shaping their expertise in the window film industry—experience that positions Skyfol among the most established names in Europe.

Innovation, quality, and partnership define everything we do. Skyfol has pioneered key technologies in Europe, including IR automotive films, coated PPF, and hydrophobic PPF. Today, our entry-level automotive window film already offers high IR performance with up to 91% infrared rejection, and every Skyfol PPF comes with a hydrophobic surface as part of the standard specification.

With exclusive distribution partners across Europe and the Middle East, we focus on building markets together professionally, strategically, and for the long term. **Skyfol-Film Solutions.**

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ADVANTAGES OF SKYFOL



5 AUTOMOTIVE WINDOW FILM SERIES

Good – Better – Best — plus two extra steps to cover every need. Our range starts with two dyed-metalized heat-rejecting films (HP Pro and HP GP), followed by the high-performance HP IR, which delivers outstanding results at a great price. Next comes our premium ceramic line, NT Ceramic, and at the very top sits Skyfol BabyGuard — our most premium series, specially developed to maximize comfort for small children.



40+ YEARS OF PROFESSIONAL EXPERIENCE

Skyfol's journey in window films began in 1982 — the year Helmut Kohl became Chancellor of West Germany, a milestone many associate with a new era in Europe.



INNOVATION FIRST

We consistently bring the latest technologies to Europe first, setting new benchmarks in comfort, performance, and installability. Innovation is at the core of Skyfol — we don't follow trends, we introduce them.



WIDE SUPPLIER BACKGROUND

Skyfol automotive window films are manufactured by the world's leading factories, produced to our own unique specifications and performance targets. We work only with partners who can consistently deliver tight tolerances, reliable quality control, and repeatable results at scale. Each series is built to meet Skyfol-defined standards for optical clarity, heat rejection, durability, and installability. This approach ensures that every roll performs exactly as intended — batch after batch.



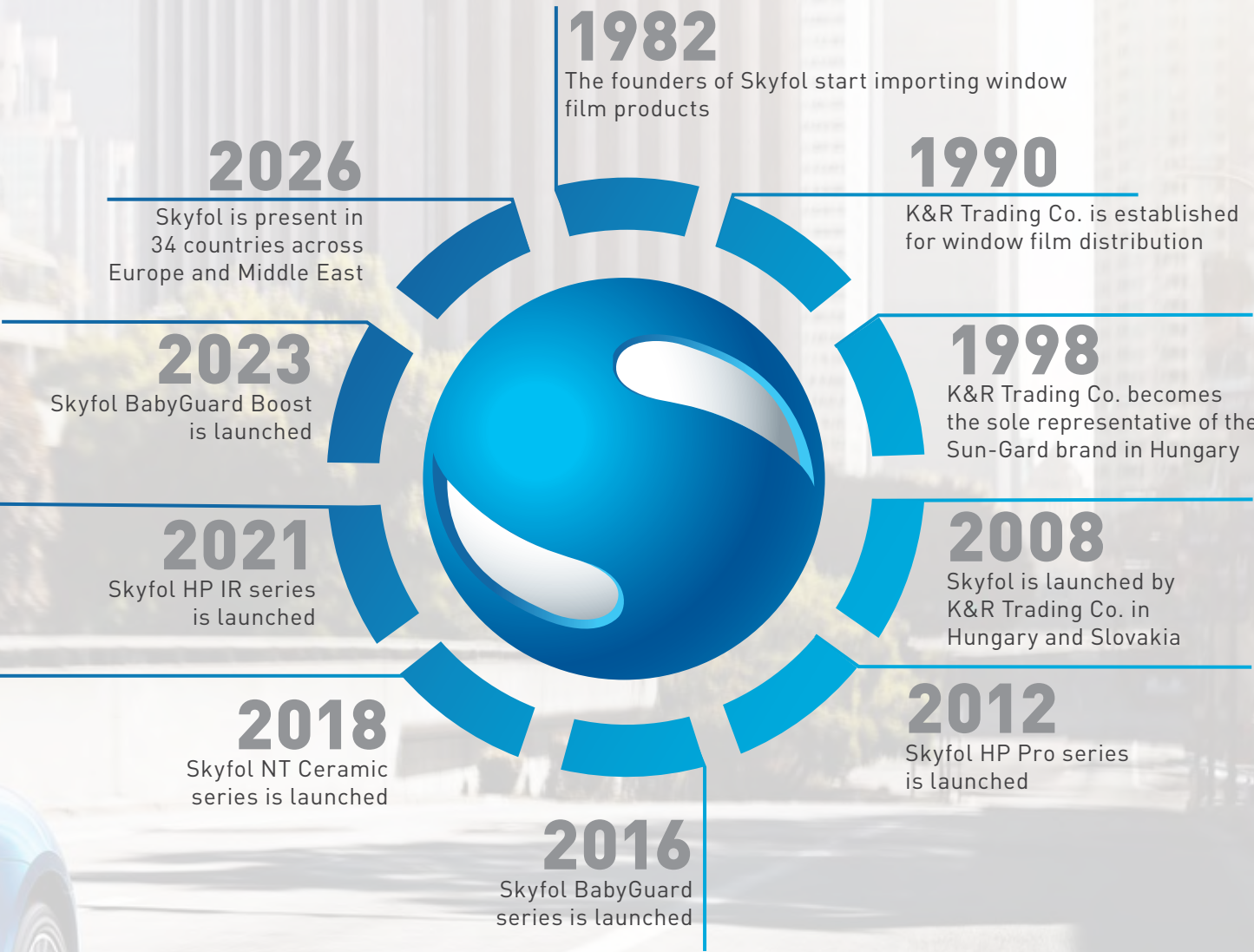
PROFESSIONAL APPLICATION NETWORK

Top performance requires top installation. Through our contracted professional installer network, you receive not only a premium window film, but also an impeccable finish. In several countries where we have distribution, our training system helps installers maintain Skyfol-level standards and best practices.



THE STRONGEST WARRANTY CONDITIONS IN THE INDUSTRY

Every Skyfol series is supported by industry-leading warranty terms. The premium NT Ceramic and ultra-premium BabyGuard lines are protected by a lifetime warranty. The performance-focused HP Pro, HP GP, and HP IR series each include a 10-year warranty, ensuring reliable protection at every level.



WORKING PRINCIPLE OF WINDOW FILMS

SOLAR RADIATION

Solar radiation is electromagnetic energy emitted by the Sun. The Earth's atmosphere absorbs and scatters a large portion of the most harmful wavelengths. Additional filtering occurs when sunlight passes through glass: depending on the glass type and construction, some ultraviolet (UV) radiation is blocked while visible light and parts of infrared (IR) may still pass through. The purpose of window films is to reduce unwanted radiation and heat entering through the glazing.

VISIBLE LIGHT (VL)

Visible light is approximately 400–700 nm (often extended to ~780 nm in some references). It provides illumination and affects glare and driving comfort. Window film selection balances light transmission with glare reduction and visibility requirements.

ULTRAVIOLET (UV) RADIATION

UV radiation spans roughly 280–400 nm and is commonly divided into UV-B (280–315 nm) and UV-A (315–400 nm). Typical automotive glass blocks most UV-B and part of UV-A; laminated windshields generally provide even higher UV attenuation. Although UV represents a small share of total solar energy, it contributes significantly to skin aging, eye lens changes, material fading, and—at high exposure—skin cancer risk. Skyfol automotive window films filter up to 99% of UV (UV-A and UV-B).

INFRARED (IR) RADIATION

In the near-infrared range (roughly 700–2,500 nm for common solar spectrum references), radiation is a key contributor to perceived heat load. Reducing IR transmission can improve cabin comfort and lower air-conditioning demand.



WHAT ARE AUTOMOTIVE WINDOW FILMS?

Automotive window films are multi-layer laminates based on optically clear polyester (PET). Depending on the technology, layers may be dyed, metalized, or sputter-coated to achieve the desired optical and thermal performance. The film is applied to the interior side of the glass using a clear, pressure-sensitive adhesive protected by a removable liner. The outer surface typically includes a hard-coat layer to improve scratch resistance in use.

DIFFERENCES FROM ARCHITECTURAL WINDOW FILMS

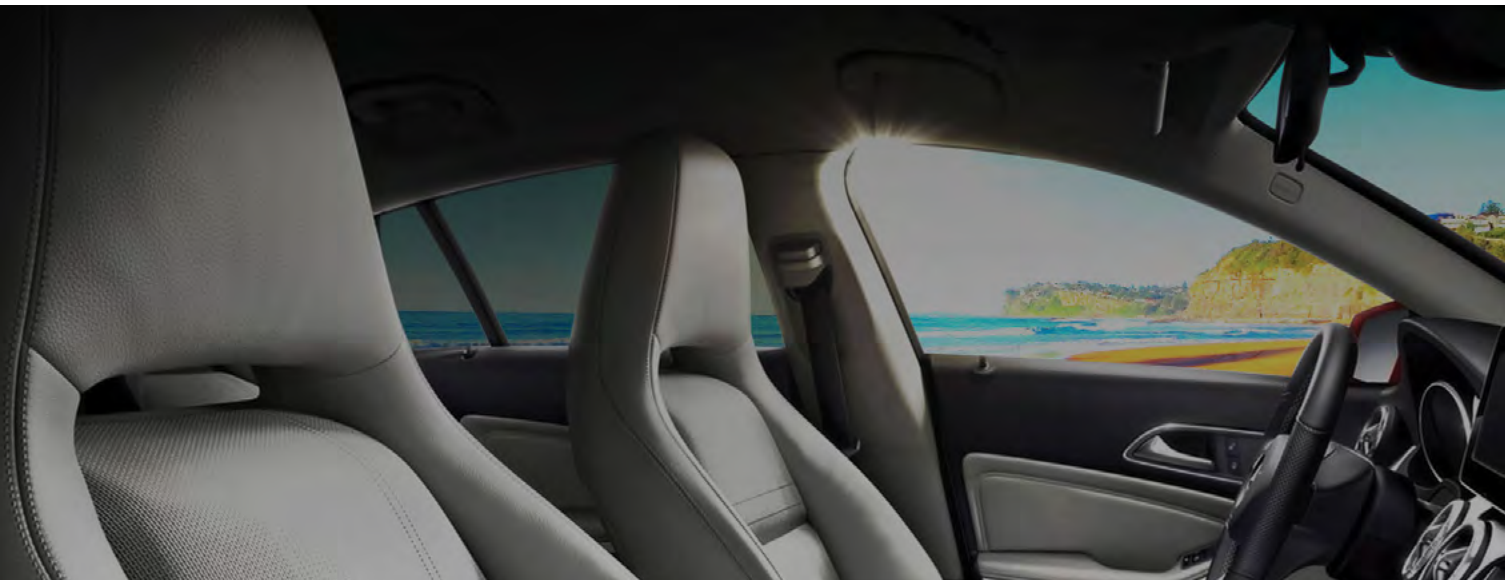
Architectural films may be designed with higher reflectivity and must consider thermal stress on building glass—especially annealed panes and insulated glazing systems. Automotive films typically maintain low reflectivity for visibility, aesthetics, and compliance while reducing heat through a controlled combination of absorption and reflection. Film choice should always match the glass type and application.





HEAT PROTECTION

Heat should never dominate the driving experience. Skyfol films help manage solar load through the glazing, creating a more composed cabin even under intense sunlight. The sensation of radiant heat on your skin is reduced, and the interior climate feels more consistent—so you can arrive looking and feeling fresh. By easing the A/C workload, the system can maintain comfort without constant full blast operation. Whether you're commuting in business attire or travelling with family, the cabin remains a more refined environment. Comfort becomes effortless, not something you have to fight.



UV PROTECTION

Protection should be constant, not occasional. Skyfol films filter up to 99% of UV, supporting skin comfort and helping preserve your vehicle's interior finish over time. The sun's UV component may be invisible, but its effects are not: accelerated aging of materials, color fading, and cumulative exposure during everyday driving. With Skyfol, UV defense becomes part of your cabin's baseline design—quiet, reliable, always working. It's an elegant kind of protection: no effort, no compromise, just lasting comfort and preservation.



LIGHT PROTECTION (GLARE + COMFORT + PRIVACY)

Light should enhance the cabin—not overwhelm it. Skyfol films soften harsh brightness and reduce glare, creating a calmer, more comfortable atmosphere for every passenger. Clarity remains a priority: you keep confident visibility, while the interior feels more discreet and composed. With multiple shade options, you can tailor the look and the level of privacy to your vehicle and your lifestyle. Discretion isn't only about style—it helps keep the focus on driving, not on what's happening inside the car. A refined balance of comfort, aesthetics, and practicality.



PROTECTION AGAINST SHARDS OF GLASS

Safety is about reducing risk when the unexpected happens. If glass breaks, Skyfol films can help keep fragments together, supporting passenger protection and reducing the chance of loose shards. This added retention can be particularly relevant for side glass, where breakage can scatter pieces quickly. For families, BabyGuard offers enhanced retention thanks to its thicker construction—an extra measure of protection designed with children in mind. It's not a substitute for the vehicle's safety systems, but it is a meaningful reinforcement. Quietly engineered to be there when you need it most.

HOW TO SELECT A WINDOW FILM?

Choosing the right tint is not only about shade. Think about who travels in the car, how the vehicle is used, and what matters most—comfort, privacy, style, or added safety support. Below are the most typical user profiles and the Skyfol series we recommend for each.

WITH YOUNG KIDS

- Do you want a calmer ride for your child—less glare, less heat, and more privacy in the rear?
- Do you want an extra layer of support in case of glass breakage, helping hold fragments together?
- Do you want a family-focused solution that prioritizes everyday safety and comfort?

We recommend: Skyfol BabyGuard

BabyGuard is designed for families who want more than tint: improved comfort plus enhanced glass-retention performance compared to standard films.

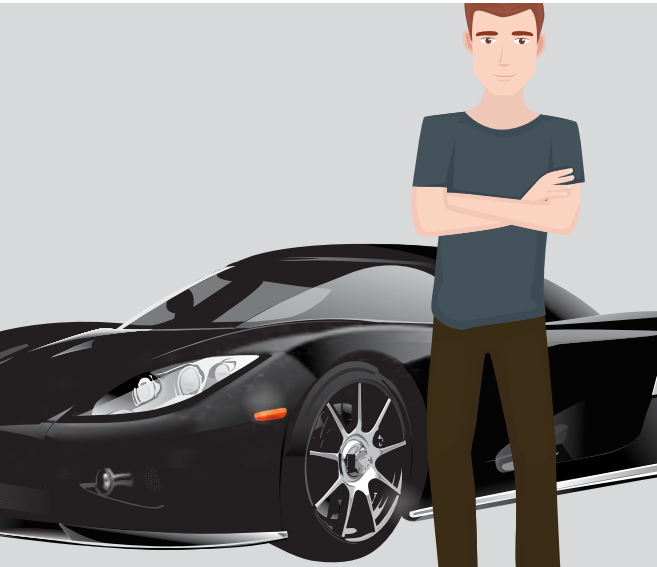


FOR DESIGN & A SPORTY LOOK

- Do you want a more dynamic, premium appearance with a clean, uniform shade?
- Do you want privacy for rear passengers while keeping a refined, factory-like finish?
- Do you want a style-driven series that still improves comfort on sunny days?

We recommend: Skyfol HP Pro

HP Pro is the choice when aesthetics lead the decision—sporty look, elegant privacy, and everyday comfort in one package.



FOR PASSENGER TRANSPORT (VANS, SHUTTLES, CHAUFFEUR USE)

- Do you want passengers to feel comfortable even in strong sunshine and heavy traffic?
- Do you want reduced glare and a more consistent cabin feel on longer routes?
- Do you want premium performance without a “too dark” appearance?

We recommend: Skyfol NT Ceramic

NT Ceramic is ideal for vehicles that carry people every day—focused on a refined comfort level and high-end performance.



FOR HOT CLIMATES & HIGH-MILEAGE DRIVING

- Do you drive a lot in summer or in regions with intense sun exposure?
- Do you want stronger heat comfort while maintaining good visibility options?
- Do you want a solution that targets the part of sunlight most associated with heat sensation?

We recommend: Skyfol HP IR

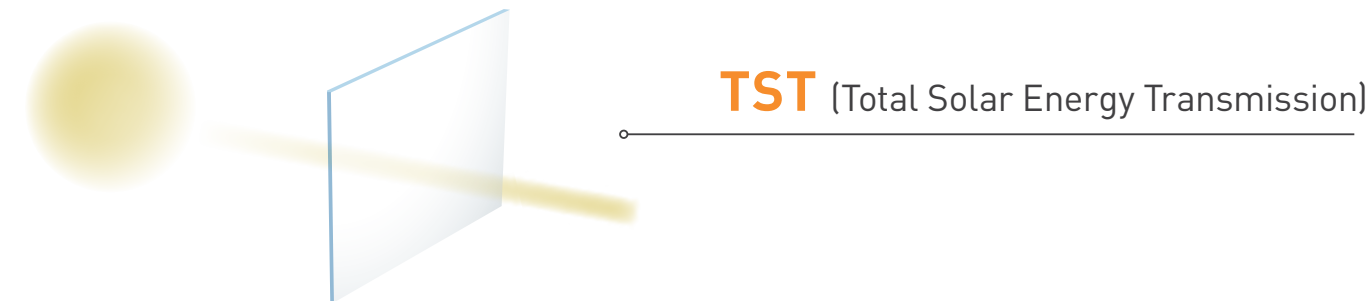
HP IR is built for customers who prioritize thermal comfort—especially during long drives, high sun load, and daily commuting.



Feature	AUTOMOTIVE WINDOW FILMS	FACTORY-TINTED (PRIVACY) GLASS	WINDOW SUNSHADE (MESH / BLIND)
Heat protection	High heat-reduction potential depending on film technology (e.g., ceramic/IR-focused films). Designed to reduce solar heat entering through the glass.	Primarily reduces brightness; heat reduction is typically limited compared to advanced solar-control films.	Partial heat relief mainly by shading and blocking direct sun; effectiveness depends on fit, coverage, and material.
Visible light control	Wide range of VLT options (multiple shades) to tune brightness and glare.	Fixed from factory (no adjustability).	Usually one “density” level; reduces brightness but control is coarse and depends on the shade type.
Visibility	Typically crystal clear outward visibility when properly installed and when a suitable VLT is selected; very dark tints can reduce night visibility.	Crystal clear outward visibility; fixed tint level.	Reduced clarity through the mesh/structure; can interfere with sharp visibility (often removable or retractable).
UV protection	Up to 99% UV protection is common for quality films (exact performance depends on the product).	UV performance varies by glass type and construction; may provide some UV reduction but is not always comparable to dedicated UV-filtering films.	Often limited unless the material is specifically UV-rated; not a controlled UV-filtering solution.
Glass shard retention	Can help hold shattered glass together and reduce loose fragments; enhanced with thicker safety-oriented films.	No additional retention beyond the glass design itself.	Partial and inconsistent: may catch some fragments, but does not bond to the glass like film.

TOTAL SOLAR TRANSMISSION (TST)

For real driving comfort, focus on what actually enters the cabin. TST measures the total solar energy transmitted through the glass and film—the energy you feel when you sit right next to the window. Unlike model-based “net heat gain” values calculated under static conditions, a moving vehicle is a dynamic environment where airflow carries away much of the absorbed heat. That’s why TST gives a clearer, more realistic picture of true in-car performance. Lower TST means less solar energy inside—and a calmer, more comfortable drive.



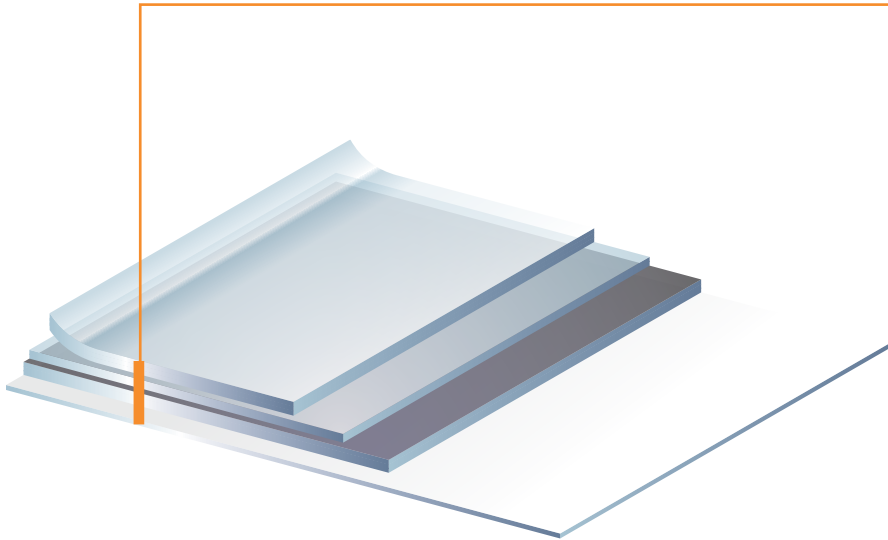


LOOKING FOR A TRULY SPECIAL WINDOW FILM—ENGINEERED WITH TOP-TIER TECHNOLOGY AND DEVELOPED SPECIFICALLY TO PROTECT CHILDREN?

Skyfol BabyGuard is our family-focused series, created to help shield young passengers from intense sunshine while delivering premium comfort and a refined, integrated look.

Even pleasant sunlight can become challenging on the road—especially for small children. Heat and

glare can make it harder to rest, and long journeys can quickly feel stressful for everyone. BabyGuard helps reduce solar heat and soften harsh brightness, creating a calmer back-seat environment where children can travel more comfortably.



- EASY SHRINK
- COLOR STABLE
- INSIGHT PROTECTION
- DIAMOND SRC
- IR 90% ULTIMATE HEAT REJECTION



Professional heat protection

BabyGuard is engineered with advanced multi-layer technology to enhance solar control. The result is a noticeably more balanced cabin feel—particularly for rear passengers sitting close to the side windows.



Aesthetic, integrated look

Forget temporary solutions. BabyGuard delivers a uniform, premium finish—no loose fabrics, clip-on shades, or anything that looks out of place in a well-kept vehicle.



BabyGuard



Privacy and light comfort

BabyGuard improves rear-seat privacy and helps reduce glare, so passengers can relax—and screens are easier to view in bright conditions—while aiming to maintain clear outward visibility.



Exclusively for Skyfol

Skyfol BabyGuard is produced exclusively for Skyfol by an internationally recognized manufacturer, using modern production technology to deliver high-performance solar control.



UV filtering up to 99.9%

BabyGuard filters up to 99.9% of UV (UVA/UVB) using high-grade UV-absorbing materials inspired by solutions used to help protect sensitive surfaces from sun-related fading.

Technical details

	BABYGUARD 05	BABYGUARD 15	BABYGUARD 30	BABYGUARD 50	BABYGUARD 70	BABYGUARD 80
Total solar transmission	5%	9%	16%	23%	35%	45%
Total solar energy rejected	70%	67%	62%	57%	49%	42%
Visible light transmission	5%	14%	30%	49%	67%	77%
Visible light reflection	6%	6%	6%	8%	9%	9%
UV filtering	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Warranty	Limited lifetime warranty					

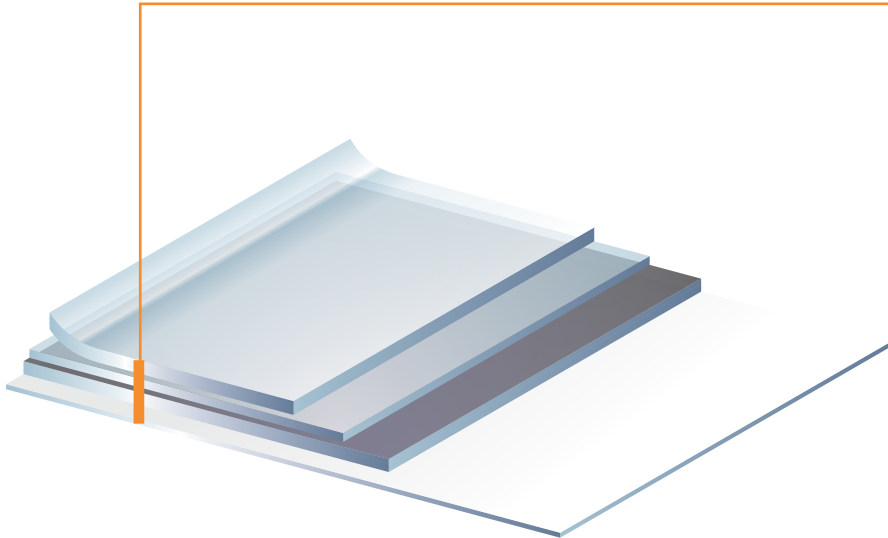




LOOKING FOR A SOLUTION FOR YOUR REAR WINDSCREEN OR OVERSIZED SUNROOF THAT COMBINES EXCEPTIONAL HEAT REJECTION WITH MECHANICAL PROTECTION – AND INSTALLS FLAWLESSLY EVEN OVER DEFROSTER LINES AND DOT-MATRIX PATTERNS?

Ensure your children have the coolest and safest travel experience with the help of BabyGuard Boost, the newest window film in the industry. Premium window film specifically developed for the rear windcreens of coupes and sedans, and for all types of sunroofs. Superior protection of heat, UV radiation and mechanical damages.

In case of glass breakage or mechanical impacts, BabyGuard Boost will keeps fragments together. Passengers will have perfect visibility, the shade of the film is comparable to factory-tinted windows.



- IR 90% EXTREME HEAT REJECTION
- EXTERIOR INSTALLATION
- NO MORE VISIBLE DOT MATRIX
- SELF-HEALING



Reinventing window film

Skyfol BabyGuard Boost is an exceptional window film in the industry, it provides heat UV and surface protection for the vehicle at the same time.



Aesthetic look

No more sunshades or clip-on accessories. The Baby Guard Boost film series has a visible light transmittance of 5, 15, 30 and 70%, giving an aesthetic appearance to the car's glass surfaces.

BabyGuardBoost
by Skyfol®



Professional heat protection

BabyGuard Boost (just like the BabyGuard series) is manufactured using nano technology, contains a multitude of very thin layers, letting only 8% of irradiated heat pass through.



99.9% UV filtering

Skyfol BabyGuard Boost has unique 99.9% UV protection, as it utilizes the UV filtering materials of so-called „museum films“, used for the protection of valuable objects from fading.

Technical details

	BABYGUARD BOOST 05	BABYGUARD BOOST 15	BABYGUARD BOOST 30	BABYGUARD BOOST 50	BABYGUARD BOOST 70
Total solar transmission	8%	12%	20%	26%	40%
Total solar energy rejected	70%	70%	66%	55%	48%
Visible light transmission	5%	15%	30%	50%	70%
Visible light reflection	5%	5%	5%	5%	8%
UV filtering	99.9%	99.9%	99.9%	99.9%	99.9%
Warranty	5 years				



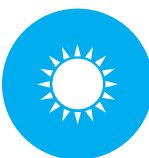


LOOKING FOR A TRULY PREMIUM WINDOW FILM SERIES—
ONE THAT DELIVERS HIGH HEAT CONTROL EVEN IN LIGHTER
SHADES?

The Skyfol NT Ceramic range represents the top tier of modern window film technology. Built on advanced ceramic construction, it is engineered to reduce solar heat through the glass and improve in-car comfort without relying on heavy tint. That’s why even the lightest versions can offer impressive performance—making them a smart choice for customers who want a refined look and strong heat rejection, including options that may be suitable for front side windows where local regulations allow.



- EASY SHRINK
- COLOR STABLE
- SPECTRALLY SELECTIVE
- DIAMOND SRC
- IR 70% EXTREME HEAT REJECTION



Extra heat rejection

NT Ceramic is designed to outperform conventional dyed or dyed-metallized films, delivering noticeably stronger heat comfort in both light and dark shade options. The result is a calmer cabin feel in bright sunshine and less “radiant heat” next to the glass.



Aesthetic, integrated appearance

Forget temporary solutions. NT Ceramic provides a clean, uniform finish—no clip-on shades, no fabric screens—just a premium, factory-like look that fits the vehicle’s design.

NT Ceramic



Front-window compliant options

Where permitted by local regulations, NT Ceramic 90 can be selected for the front side windows. With very high visible light transmission, it supports compliance-focused installations while still targeting heat-related wavelengths for improved comfort. Always verify legal limits and required documentation in your country.



Privacy and light comfort

Across the range, NT Ceramic offers tailored shade options that help soften harsh brightness and enhance rear-seat privacy, while aiming to preserve clear outward visibility for everyday driving.

Technical details

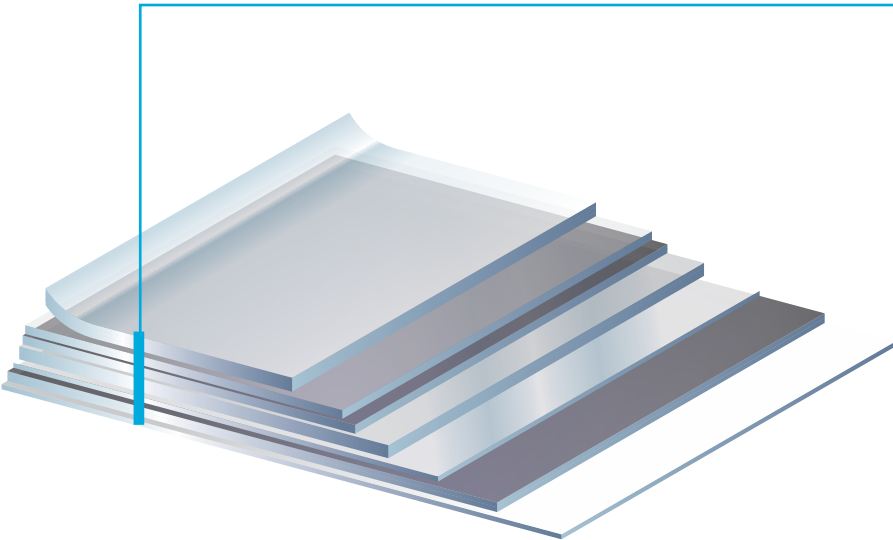
	NT 05 CERAMIC	NT 20 CERAMIC	NT 35 CERAMIC	NT 50 CERAMIC	NT 70 CERAMIC	NT 80 CERAMIC	NT 90 CERAMIC
Total solar transmission	11%	16%	23%	32%	35%	47%	70%
Total solar energy rejected	66%	62%	58%	51%	49%	40%	31%
Visible light transmission	4%	18%	32%	51%	69%	79%	89%
Visible light reflection	6%	6%	7%	7%	8%	9%	9%
UV filtering	99%	99%	99%	99%	99%	99%	99%
Warranty	SkyFol Lifetime Warranty						



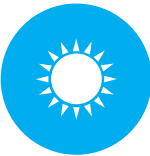


WANT A CLEAN, SPORTY LOOK WITH EVERYDAY COMFORT—WITHOUT STEPPING INTO OUR HIGHEST-END HEAT-CONTROL RANGES?

Skyfol HP Pro / HP GP is the entry point to premium tinting in the Skyfol portfolio. It delivers strong visual comfort, privacy, and UV protection, while providing a measurable level of infrared filtering. Compared to our more advanced solutions such as NT Ceramic, BabyGuard, or HP IR, HP Pro / HP GP’s heat performance is intentionally more modest—making it a smart choice when style, glare control, and value are the priority.



- EASY SHRINK
- INSIGHT PROTECTION
- DIAMOND SRC
- IR 40% HEAT REJECTION



Everyday comfort with infrared filtering
Unlike many basic dyed films on the market, HP Pro / HP GP is not “IR-neutral.” Even as an entry series, it is engineered to filter in the infrared range, supporting a more comfortable cabin feel on sunny days.



Premium, integrated appearance
HP Pro / HP GP offers a uniform, factory-like finish that enhances the vehicle’s design. No temporary cloths, no clip-on shades—just a clean, professional look that stays consistent.

HP Pro
HP GP



Light & glare control
With multiple shade options, HP Pro / HP GP helps soften harsh brightness and reduce glare for rear passengers. It makes longer drives more relaxing and helps passengers enjoy a calmer light environment.



UV protection up to 99%
HP Pro / HP GP filters up to 99% of UV (UVA/UVB), helping reduce daily exposure and supporting interior preservation over time—built into the film structure for long-lasting performance.

Technical details

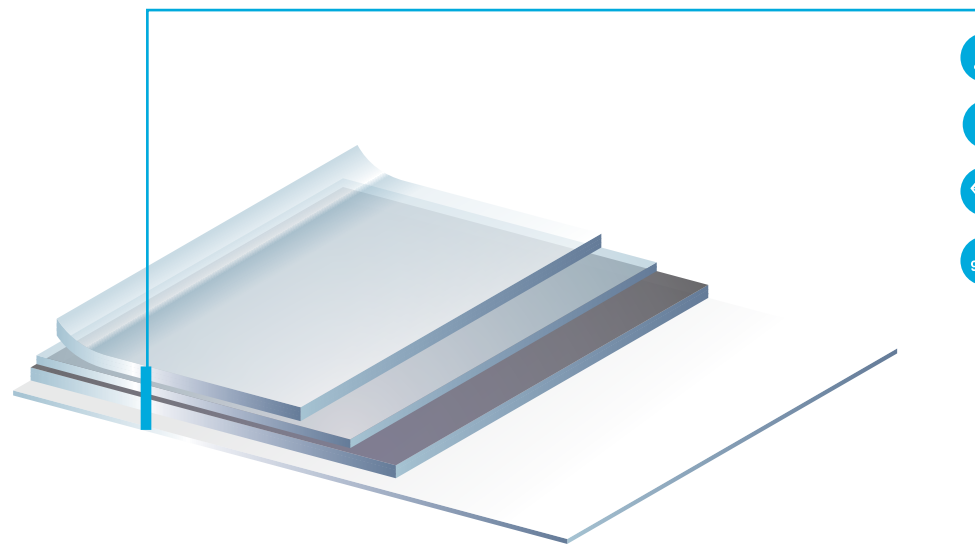
	HP PRO 03	HP PRO 05	HP PRO 15	HP PRO 20	HP PRO 35	HP PRO 50	HP GP 05	HP GP 15	HP GP 35	HP GP 50
Total solar transmission	27%	28%	32%	35%	43%	48%	17%	28%	39%	49%
Total solar energy rejected	60%	58%	56%	54%	49%	35%	59%	57%	47%	39%
Visible light transmission	3%	5%	15%	22%	38%	52%	5%	16%	36%	54%
Visible light reflection	8%	8%	8%	8%	8%	8%	7%	7%	9%	6%
UV filtering	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%
Warranty	10 years						10 years			



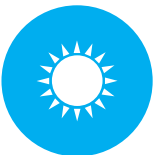


LOOKING FOR EXCEPTIONAL VALUE—WITHOUT COMPROMISE?

The Skyfol HP IR series is built for customers who want outstanding heat protection, remarkable durability, and a high-performance feel at a smart price point. Engineered to target heat-associated wavelengths, HP IR helps reduce the “radiant heat” sensation next to the glass and supports a more comfortable cabin—day after day, season after season.



- COLOR STABLE
- INSIGHT PROTECTION
- DIAMOND SRC
- IR 90% EXTREME HEAT REJECTION



Powerful heat protection

HP IR is designed to reduce solar heat entering through the windows, helping the cabin feel more stable in strong sunshine. By limiting the energy that reaches the interior, it can make daily driving noticeably more comfortable—especially for passengers sitting close to the side glass.



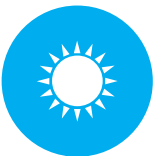
High clarity and glare comfort

HP IR supports clear outward visibility while softening harsh brightness. With carefully selected shade options, it helps reduce glare for both driver and passengers, creating a calmer interior light environment without an overly dark appearance.



Durable, long-lasting performance

Made for real-life use, HP IR is engineered for long-term reliability. Its construction is designed to maintain performance and appearance over time, supporting a premium finish that stays consistent through everyday driving conditions.



UV protection up to 99%

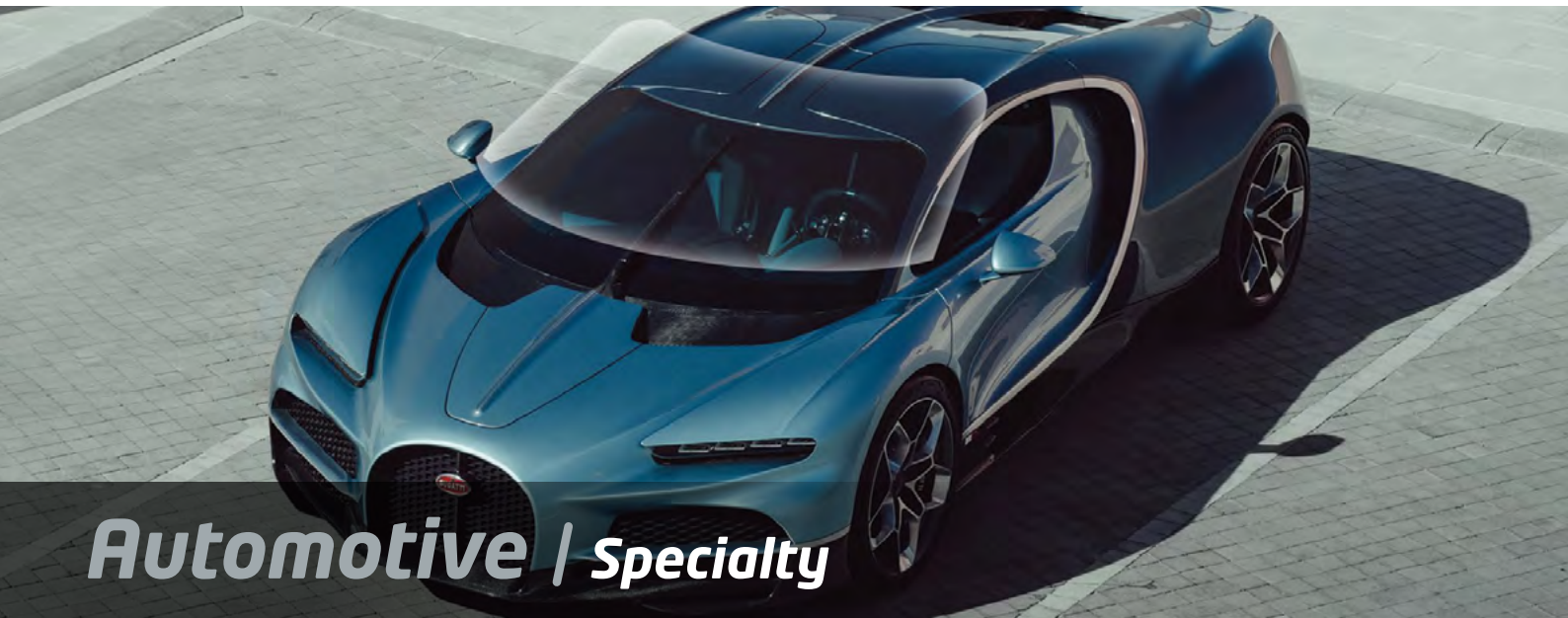
HP IR filters up to 99% of UV (UVA/UVB), helping reduce daily UV exposure and supporting interior preservation. It’s built-in protection that helps slow fading and material aging for a cabin that stays looking newer, longer.

HP IR

Technical details

	HP IR 05	HP IR 15	HP IR 30	HP IR 45	HP IR 70	HP IR 75	HP IR 80
Total solar transmission	9%	11%	23%	31%	38%	33%	47%
Total solar energy rejected	68%	65%	53%	48%	50%	43%	42%
Visible light transmission	7%	15%	31%	45%	70%	70%	80%
Visible light reflection	5%	5%	5%	6%	9%	8%	9%
UV filtering	99%	99%	99%	99%	99%	99%	99%
Warranty	5 years						

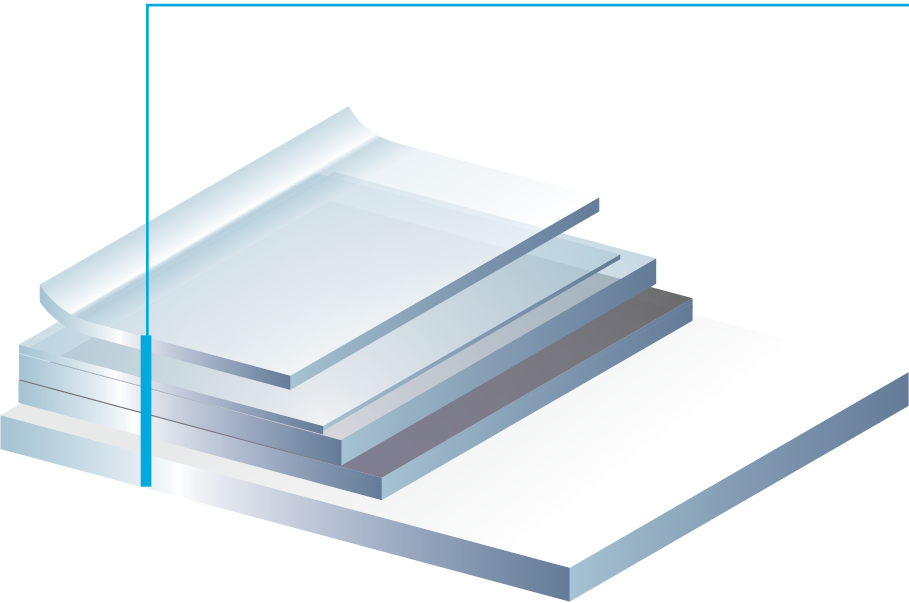




LOOKING FOR RELIABLE PROTECTION FOR YOUR WINDSHIELD AGAINST STONE CHIPS AND OTHER DAMAGE?

Skyfol VisionGuard offers strong protection against stone chips and other mechanical impacts for the windshield*. Thanks to its premium-grade adhesives and special design, it ensures crystal-clear visibility—there's no need to worry about distortion! Unlike many other TPU-based films, Skyfol VisionGuard guarantees perfect clarity due to its unique construction, and it comes with a self-healing coating for added durability.

* Please note: the film is intended to offer surface protection. The film does not guarantee 100% protection against glass damage, it reduces the probability radically.



- PPF LIKE STRUCTURE
- CRYSTAL CLEAR
- SELF HEALING
- DISTORTION FREE



Water-Repellent Finish

Skyfol VisionGuard features a hydrophobic surface that actively repels water, helping droplets bead up and run off quickly. This supports clearer visibility in wet conditions by reducing water film on the glass. Because dirt and road grime adhere less easily, the surface stays cleaner for longer and is easier to wash. The hydrophobic effect contributes to a consistently sharp, premium look in everyday driving.



Rock-Chip Ready

Skyfol VisionGuard features a PPF-like structure engineered to absorb and disperse mechanical impact energy. This construction helps protect the glass surface against rock chips, gravel hits, and other road-borne impacts that can cause visible marks or surface damage. The film's resilient layers act as a buffer, reducing the likelihood of chips, scuffs, and scratches during everyday driving. This is especially valuable on highways, near construction zones, or on roads where debris is more common. Overall, VisionGuard represents a specialized category within automotive films, focused on mechanical protection rather than heat rejection.

VisionGuard



Installer-Friendly

Unlike regular polyester based windshield protection films, Skyfol VisionGuard is super easy to install. You do not need heat gun and lengthy heat shrinking procedures, just stretch onto the surface like a paint protection film and install in just minutes.



Restores a Like-New Finish

Skyfol VisionGuard is finished with a self-healing topcoat designed to recover from light surface marks and micro-scratches. With gentle heat exposure fine swirls can soften and visually diminish. This helps the film maintain a smooth, like-new appearance for longer and supports long-term clarity.

Technical details

Thickness of the polyurethane film:	125 micron
Transmittance	> 90 %
Haze	> 1.0 %
UV Rejection	> 99 %
Adhesion (30min.)	> 500 gf/25mm
Adhesion (24hours)	> 500 gf/25mm
Warranty	1 year



FREQUENTLY ASKED QUESTIONS

HOW MUCH DOES WINDOW FILM INSTALLATION COST?

Pricing depends on three main factors: location, film series, and the installer's level. Installation is skilled manual work, so local labor costs and workshop standards have a strong impact. Film selection also matters—advanced technologies and premium series typically cost more than entry-level products. Finally, vehicle type and glass complexity can affect the quote (larger cars, complex rear screens, and premium trims often require more time). For a reliable estimate, request a quote based on your exact model and the desired series.

HOW CAN THE FILM BE REMOVED?

Film removal is best done by a professional installer with the proper tools and experience. After removal, adhesive residue may remain on the glass and must be cleaned with appropriate products to avoid scratching. Extra care is required on the rear window, where defroster lines are present. While removal is normally safe when performed correctly, there is always a small risk of damaging defroster lines—especially on older or previously repaired glass. A reputable workshop will explain the process and risks in advance and use methods (such as controlled heat/steam) to reduce that risk.

HOW LONG DOES INSTALLATION TAKE?

Most passenger cars can be tinted within 2–4 hours, depending on the vehicle, the number of windows, and the chosen technique. Front side windows typically add time, and windscreen film (where legal and requested) can take longer due to precision work and curing requirements. Some workshops complete the job faster with multiple technicians. Your installer can confirm an accurate time window after inspecting the vehicle.

WHY ARE THERE DIFFERENT WINDOW FILM SERIES?

Different series use different technologies to manage visible light, UV, and infrared (heat-associated) wavelengths. Some films focus on style and glare control, while advanced series deliver stronger heat comfort even in lighter shades. The best choice depends on priorities: front-window compliance needs, desired appearance, privacy level, and your target comfort performance.

IS IT NECESSARY TO REMOVE GLASS OR DOOR PANELS?

Most installations do not require removing the glass itself. Some installers partially disassemble trim panels to achieve cleaner edges and a more factory-like finish; others use techniques that avoid disassembly. Both approaches can be professional when done correctly. If you prefer minimal disassembly, choose a workshop that matches your preference and can explain their method.

CAN I WAIT AT THE WORKSHOP DURING INSTALLATION?

In most cases, yes. Many workshops have a waiting area and are happy for customers to stay. For best results, installers typically work more efficiently without interruptions, so it's recommended to relax in the waiting space while the technician completes the job.

WHAT WARRANTY DOES SKYFOL OFFER?

Skyfol certified installers provide warranty coverage for both material and installation, according to the series and local warranty terms. Typical coverage includes manufacturing-related issues such as peeling, bubbling, delamination, cracking, and adhesive failure. Warranty duration depends on the series (e.g., HP Pro – 10 years; NT Ceramic and BabyGuard – Lifetime, where offered). Warranty is generally valid for the original owner of the vehicle who purchased the installation and may require proof of purchase and compliance with care instructions.

WHY CHOOSE WINDOW FILM IF MY CAR ALREADY HAS FACTORY PRIVACY GLASS?

Factory privacy glass mainly reduces visible light and offers a fixed look. Window film adds flexibility: you can select the exact shade and performance level you want. Advanced film technologies can provide strong UV filtering and improved comfort by reducing solar load through the glass—often beyond what privacy glass alone provides. Results depend on the original glass type, but film is the most precise way to tailor appearance and comfort.

WHY CHOOSE WINDOW FILM INSTEAD OF SUNSHADES?

Sunshades can be useful, but they typically reduce clarity through the mesh and offer limited performance consistency. Window film provides an integrated, permanent solution that can improve comfort without loose accessories, while maintaining a clean, professional look. Film also supports UV filtering and more consistent glare control across the full window area.

WILL OPENING THE WINDOW DAMAGE THE FILM?

Quality automotive films are designed for normal window operation and include a durable hard-coat layer. However, some vehicles have minimal or worn felt guides in the window channel, which can cause abrasion over time. Experienced installers know these cases and may apply protective felt solutions when appropriate. After installation, follow the curing guidance (avoid opening windows for the recommended period) to ensure the film sets properly.

WHERE CAN WINDOW FILM BE APPLIED?

This depends on local law. In many European countries, front side windows must remain highly transparent (often around the 70% VLT range or higher), and windscreen restrictions are typically even stricter. Some markets prohibit aftermarket tint on certain front areas entirely. Always verify local limits and required certification/markings before choosing a front-window installation.

WILL WINDOW FILM AFFECT MOBILE PHONE OR GPS RECEPTION?

Some metallized films can reduce signal strength in certain conditions. Ceramic-based films generally minimize this effect and are often preferred when signal sensitivity is a concern. If your vehicle relies on in-glass antennas or you notice reception sensitivity, ask your installer to recommend the most suitable technology for your needs.

CAN I INSTALL THE FILM MYSELF?

Automotive film installation is a precision process. DIY installation often leads to contamination (dust), uneven edges, or visible imperfections, and it may not meet certification requirements in countries where documentation is mandatory. For a clean finish and compliance support, professional installation is strongly recommended.

WHAT CAN HAPPEN IF MY TINT IS NOT COMPLIANT OR HAS NO REQUIRED DOCUMENTS?

Enforcement depends on the country. Possible outcomes include a fine, a defect notice, restrictions on vehicle use until corrected, or failing periodic inspection. If documentation is required in your market, make sure you receive the correct certificate/markings after installation and keep it with the vehicle.

WILL WINDOW FILM INTERFERE WITH MY DRIVING?

When correctly installed, quality film remains optically clear. The key factor is visible light transmission (VLT): darker films reduce light, which can be uncomfortable for some drivers at night. If you are new to tint, start with a lighter option and choose darker shades only where they fit your driving habits and legal limits.

FREQUENTLY ASKED QUESTIONS

WHAT SHOULD I DO IF I DON'T HAVE A QUALITY CERTIFICATE?

If you know the brand and country, contact the local distributor or the original installer (if available). If the film has no marking and your market requires documentation, the only reliable solution may be replacing the film with a certified product installed by an authorized workshop.

WHY IS NT CERAMIC BETTER THAN HP PRO?

NT Ceramic uses advanced ceramic technology to deliver significantly stronger comfort performance—especially heat comfort in lighter shades—while offering excellent long-term stability. HP Pro is positioned as a style-and-comfort entry level, whereas NT Ceramic targets premium performance expectations.

WHY IS BABYGUARD DIFFERENT FROM NT CERAMIC?

BabyGuard is a family-focused solution designed with children in mind. In addition to strong solar control and UV filtering, it is positioned for enhanced glass shard retention due to its thicker construction compared to standard films—supporting added peace of mind for rear-seat passengers.

WHAT MAKES A WINDOW FILM “HEAT PROTECTIVE”?

Heat comfort is influenced mainly by how a film manages infrared and overall solar energy. Films that only darken visible light can reduce glare but may deliver limited heat comfort compared to technologies engineered for IR/solar control. When comparing products, look at consistent performance data and choose the technology that matches your comfort expectations and legal constraints.

HOW SHOULD I CLEAN FILMED GLASS?

Avoid abrasive tools and harsh chemicals. Use a soft microfiber cloth and a standard glass cleaner (preferably non-abrasive). Allow the film to fully cure after installation before cleaning, and follow your installer’s care instructions to protect the surface and edges long-term.

DO ALL WINDOW FILMS TURN PURPLE OVER TIME?

No. Discoloration is typically associated with low-quality dyed films and inadequate UV stabilization. Quality films use stable materials and construction methods designed to maintain appearance and performance over time.

WHAT DOCUMENTS WILL I RECEIVE AFTER INSTALLATION?

After installation, the licensed installer should provide your Skyfol quality certificate and any required markings/identification according to local rules. Keep the certificate with the vehicle documents, especially in markets where roadside checks or inspection requirements apply.

WHAT DOES “LIFETIME WARRANTY” MEAN?

Lifetime warranty generally means coverage for as long as the original purchaser owns the vehicle, under the stated warranty terms. It typically covers film-related defects such as peeling, bubbling, delamination, cracking, and adhesive failure, and is handled by the certified installer who performed the work (or the authorized network defined in your market).

HOW CAN I TELL IF AN INSTALLER IS RELIABLE?

Choose an installer recommended by an established distributor or an official partner network. Look for workshop experience, portfolio quality, clean working conditions, and clear communication about legal compliance, after-care, and warranty handling. A professional shop will be transparent about what is included and what is not.

WHY TRUST SKYFOL?

Skyfol films are built around consistent technology positioning (from entry series to top-tier performance) and are installed through professional partners who provide proper documentation and warranty support. The goal is a predictable, premium outcome: clear optics, reliable durability, and comfort performance aligned with the chosen series.

TOTAL SOLAR TRANSMISSION (TST) %

The percentage of incident solar energy in the total solar wave-length range (typically 300–2,500 nm) that passes directly through the glazing system (glass + film).

TOTAL SOLAR ENERGY REFLECTED (TSR) %

The percentage of incident solar energy in the total solar wave-length range (typically 300–2,500 nm) that is reflected by the glazing system.

TOTAL SOLAR ENERGY ABSORBED (TSA) %

The percentage of incident solar energy in the total solar wave-length range (typically 300–2,500 nm) that is absorbed within the glazing system.

TOTAL SOLAR ENERGY REJECTED (TSER) %

The percentage of incident solar energy that does not pass through the glazing system. In optical terms this equals: $TSER = TSR + TSA = 100\% - TST$
(Note: absorbed energy is not transmitted, but it may later be released as heat to either side depending on conditions.)

VISIBLE LIGHT TRANSMISSION (VLT) %

The percentage of visible light (typically 380–780 nm) that passes through the glazing system.

VISIBLE LIGHT REFLECTED (VLR) %

The percentage of visible light (typically 380–780 nm) that is reflected by the glazing system.

SOLAR HEAT GAIN COEFFICIENT (SHGC)

A measure of how much solar energy enters an interior as heat through the glazing. It includes:

- solar energy transmitted directly, and
- the portion of absorbed solar energy that is re-radiated/convected inward.

Lower SHGC means lower solar heat gain.

U-VALUE (W/M²·K)

The overall heat transfer coefficient of the glazing system, describing heat loss or gain due to temperature difference, independent of direct solar radiation.
Lower U-value means better insulation (reduced heat transfer).

EMISSIONITY (E)

A surface property describing how effectively the glazing system emits and absorbs long-wave (thermal) infrared radiation. Lower emissivity generally means better reflection of long-wave heat, which can reduce radiative heat transfer.

UV TRANSMISSION (UVT) %

The percentage of UV radiation (commonly referenced as 300–380 nm, depending on the standard) that passes through the glazing system.

UV REJECTION (UVR) %

The percentage of UV radiation that is blocked by the glazing system:
 $UVR = 100\% - UVT$ (within the defined UV wavelength range)

MECHANICAL PROPERTIES
(window film)

TENSILE STRENGTH

The maximum stress a film can withstand when pulled before breaking. Typically measured according to standardized test methods and reported in psi (lb/in²) or MPa.

BREAK STRENGTH (BREAK FORCE)

The force at which the film specimen breaks during a tensile test. Commonly reported in lbf or N, and sometimes normalized by width (e.g., lbf/in or N/mm), depending on the method.

PUNCTURE STRENGTH

A measure of the film's resistance to being pierced by a defined probe/blunt object under standardized conditions. Reported as force (N or lbf) or sometimes as an equivalent mass (kg) depending on the test method.

FEATURE TERMS
(marketing descriptors)

-  **EASY SHRINK**
Designed to shrink and conform easily during installation, supporting faster, cleaner forming.
-  **COLOR STABLE**
Engineered to resist discoloration and visible fading over time under normal use (warranty terms apply).
-  **SPECTRALLY SELECTIVE**
A film designed to maintain high visible light transmission while providing strong solar/infrared control, delivering heat comfort without heavy tint.
-  **INSIGHT PROTECTION**
A privacy-focused option with very low VLT (typically below 10%), reducing visibility into the vehicle.
-  **DIAMOND SRC**
An extra-durable, industrial-grade scratch-resistant coating (hard coat) designed for improved surface durability.
-  **ULTIMATE HEAT REJECTION**
A category descriptor indicating very high infrared rejection, typically above 90% IR, measured over the manufacturer's defined IR range.
-  **EXTREME HEAT REJECTION**
A category descriptor indicating high infrared rejection, typically above 70% IR, measured over the manufacturer's defined IR range.
-  **HEAT REJECTION**
A category descriptor indicating enhanced infrared rejection, typically above 40% IR, measured over the manufacturer's defined IR range.

Automotive window film regulations vary by country, so the first step of any premium tint job is confirming the legal limits for the vehicle's front glazing. In most European markets, requirements are based on Visible Light Transmission (VLT) and prioritize clear visibility for the driver. As a general principle, front side windows must remain highly transparent, and windscreen rules are typically stricter—often allowing only a limited sun visor band or requiring very high transmission in the primary viewing area.

It is important to note that compliance is assessed on the combined VLT of the glass and the film. Factory glass differs between vehicle models and trims, which is why a film that is legal on one car may not be legal on another. Countries also differ in how compliance must be proven. Some accept compliant installations without added paperwork, while others require certificates, stickers/labels, or permanent identification markings linked to the approved film type. If a tint is darker than permitted, outcomes can include failed inspection, mandatory removal, fines, and temporary restrictions on vehicle use until corrected.

NO CERTIFICATE NEEDED

One group of countries does not require a certificate or marking on the film.

CERTIFICATE + STICKER SYSTEM

Another group of countries issue a certificate which holds the certification number of the window film, plus they put a sticker between the glass and the film also containing the very same registration number.

ABG CERTIFICATE + ENGRAVING

Germany applies ABG certificates that also require the registration number to be engraved in the film. Multiple additional countries accept this system or issues their own registration based on the ABG certificates.

WHAT HAPPENS IF THE FILM IS DARKER THAN ALLOWED?

This also greatly depends on the specific country. During the MOT test the film will be removed or they will ask you to have it removed before they let the car pass. In most countries police may also check the tint, after measuring the visible light transmission, you can easily get a fine and your car might also lose its license number, which is a time-consuming task to get back.

